

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB 98/01619

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6	C12N15/31	C07K14/195	C07K14/315	C07K14/31	C07K14/32
	C07K14/33	C07K14/335	C07K14/305	C07K14/35	C07K14/36
	C07K14/34	C12N1/38	A61K39/02	A61K39/05	A61K39/07

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C12N C07K A61K G01N C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
T	<p>MUKAMOLOVA G V ET AL: "A bacterial cytokine."</p> <p>PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1998 JUL 21) 95 (15) 8916-21. JOURNAL CODE: PV3. ISSN: 0027-8424., XP002080580 United States</p> <p>see the whole document</p> <p style="text-align: center;">--- -/--</p>	<p>1-10, 15-18, 44,47</p>

☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

22 October 1998

Date of mailing of the international search report

04/11/1998

Name and mailing address of the ISA

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PCT/GB 98/01619

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IPC 6 A61K39/08 A61K39/085 C07K16/12 G01N33/50 C12Q1/68
C12N15/11

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Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	VOTYAKOVA T V ET AL: "Influence of viable cells on the resuscitation of dormant cells in Micrococcus luteus cultures held in an extended stationary phase: The population effect." APPLIED AND ENVIRONMENTAL MICROBIOLOGY 60 (9). 1994. 3284-3291. ISSN: 0099-2240, XP002080581	33
Y	see the whole document	1-10, 15-18, 44, 47
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☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KAPRELYANTS A S ET AL: "Estimation of dormant <i>Micrococcus luteus</i> cells by penicillin lysis and by resuscitation in cell-free spent culture medium at high dilution." FEMS (FEDERATION OF EUROPEAN MICROBIOLOGICAL SOCIETIES) MICROBIOLOGY LETTERS 115 (2-3). 1994. 347-352. ISSN: 0378-1097, XP002080582	33
Y	see the whole document	1-10, 15-18, 44, 47
A	--- KAPRELYANTS A S ET AL: "Do bacteria need to communicate with each other for growth?." TRENDS IN MICROBIOLOGY, (1996 JUN) 4 (6) 237-42. REF: 70 JOURNAL CODE: BIN. ISSN: 0966-842X., XP002080583 ENGLAND: United Kingdom	
P, X	--- MURPHY L ET AL: 'Hypothetical 38.1 KD protein.' TRPRO Database entry 005594, 01-Jul-1997 Accession number 005594 XP002080584 see sequence	1-10, 15-18, 30, 33, 47
P, X	--- BADCOCK K ET AL: 'Hypothetical 17.7 KD protein.' TRPRO Database entry 033049, 01-Jan-1998 Accession number 033049 XP002080585 see sequence	1-10, 15-18, 30, 33, 47
P, X	--- OLIVER K ET AL: 'Hypothetical 18.0 KD Protein.' TRPRO Database entry 007747, 01-Jul-1997 Accession number 007747 XP002080586 see sequence	1-10, 15-18, 30, 33, 47
X	--- DEVLIN K ET AL: 'Hypothetical 15.7 KD protein' TRPRO Database entry P71755, 01-Feb-1997 Accession number P71755 XP002080587 see sequence	1-10, 15-18, 30, 33, 47
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	OGASAWARA N ET AL: 'Hypothetical 47.7.KD protein in mets-ksga intergenic region.' SWISSPROT Database entry Yabe-Bacsu, 01-Oct-1994, Accession number P37546 XP002080588 cited in the application see sequence ---	1-10, 15-18, 30,33,47
P,X	KUNST F ET AL: 'Cell wall-binding protein homolog yocH-Bacillus subtilis' PIR Database entry E69901, 05-Dec-1997, Accession number E69901 XP002080589 see sequence ---	1-10, 15-18, 30,33,47
X	LYRISTIS M et al: 'Hypothetical protein 1 -Clostridium perfringens (fragment).' PIR Database entry S49552, 29-Nov-1995, Accession number S49552 XP002080590 see sequence ---	1-10, 15-18, 30,33,47
X	PARKER WD ET AL: 'Cytochrome oxidase mutations aiding diagnosis of sporadic alzheimer's disease.' EMPATENT Database entry I27393, 14-Feb-1997, Accession number I27393 XP002080591 see sequence -----	34

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International application No.

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 23-29, 39, 50, 52
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Claims Nos.: 23-29,39,50,52

Said claims relate to antagonists, inhibitors, agonists, activators, mimetics, antimicrobial drugs, biomolecules, and microorganisms without giving a true technical characterization of the claimed matter. In consequence, the scope of said claims is ambiguous and, moreover, their subject-matter is vague and not sufficiently disclosed.